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TI Lightweight calcium silicate articles having high strength and their manufacture from crystalline silicic acid raw materials and calcareous materials

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SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C01B033-24

ICS B28B003-02; C04B028-20

CC 58-4 (Cement, Concrete, and Related Building Materials)

Section cross-reference(s): 49

FAN.CNT 1

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PRAI	JP 2002-206827		20020716		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 2004051379	ICM	C01B033-24
	ICS	B28B003-02; C04B028-20
	IPCI	C01B0033-24 [ICM,7]; C01B0033-00 [ICM,7,C*]; B28B0003-02 [ICS,7]; C04B0028-20 [ICS,7]; C04B0028-00 [ICS,7,C*]
	IPCR	B28B0003-02 [I,A]; B28B0003-02 [I,C*]; C01B0033-00 [I,C*]; C01B0033-24 [I,A]; C04B0028-00 [I,C*]; C04B0028-20 [I,A]
	FTERM	4G012/PA17; 4G012/PA20; 4G012/PA22; 4G012/PA23; 4G012/PA24; 4G054/AA01; 4G054/AA15; 4G054/BA00; 4G054/BA02; 4G054/BA22; 4G073/BA11; 4G073/BD26; 4G073/CC08; 4G073/CC13; 4G073/FB09; 4G073/FB11; 4G073/FC01; 4G073/FC03; 4G073/FC12; 4G073/UB05

AB The articles are manufactured by (1) addition of water to 50-80 weight% of the total solid raw materials, consisting of crystalline silicic acid raw materials and calcareous materials, for hydrothermal synthesis of Ca silicate hydrate seed crystals and then pressing in an aqueous slurry containing

the residual 20-50 weight% of the solid raw materials to obtain Ca silicate hydrate which is shaped by dehydration and dried to give the title articles. Thus manufactured articles, having heat resistance, are also claimed. The articles show small drying shrinkage on their manufacture

ST lightwt calcium silicate hydrate article  
manuf; drying shrinkage small calcium silicate article; heat resistant calcium silicate article manuf; hydrothermal reaction lightwt calcium silicate article manuf

IT Lightweight materials